



General Assembly

February Session, 2002

**Amendment**

LCO No. 3874

\*HB0553203874HD0\*

Offered by:

REP. O'ROURKE, 32<sup>nd</sup> Dist.  
REP. FAHRBACH, 61<sup>st</sup> Dist.  
REP. PANARONI, 102<sup>nd</sup> Dist.  
REP. GODFREY, 110<sup>th</sup> Dist.  
REP. FLEISCHMANN, 18<sup>th</sup> Dist.  
REP. SPALLONE, 36<sup>th</sup> Dist.  
REP. MCCLUSKEY, 20<sup>th</sup> Dist.  
REP. URBAN, 43<sup>rd</sup> Dist.

REP. CARDIN, 53<sup>rd</sup> Dist.  
REP. JANOWSKI, 56<sup>th</sup> Dist.  
REP. CARUSO, 126<sup>th</sup> Dist.  
REP. BACKER, 121<sup>st</sup> Dist.  
REP. FONTANA, 87<sup>th</sup> Dist.  
REP. MUSHINSKY, 85<sup>th</sup> Dist.  
REP. FLOREN, 149<sup>th</sup> Dist.  
REP. WILLIS, 64<sup>th</sup> Dist.

To: Subst. House Bill No. 5532

File No. 138

Cal. No. 100

**"AN ACT REQUIRING REDUCTION IN GLARE AND LIGHT  
POLLUTION FROM PRIVATE AREA FLOODLIGHTING LOCATED  
WITHIN THE STATE RIGHT-OF-WAY."**

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- 1 After line 52, insert the following:
- 2 "Sec. 2. (NEW) (*Effective October 1, 2002*) (a) As used in this section:
- 3 (1) "Fixture" means the assembly that holds a lamp and may include
- 4 an assembly housing, a mounting bracket or pole socket, a lamp
- 5 holder, a ballast, a reflector or mirror and a refractor or lens;
- 6 (2) "Full cut-off luminaire" means a luminaire that allows no direct
- 7 light emissions above a horizontal plane through the luminaire's

8 lowest light-emitting part;

9 (3) "Glare" means direct light emitting from a luminaire that causes  
10 reduced vision or momentary blindness;

11 (4) "Illuminance" means the level of light measured at a surface;

12 (5) "Lamp" means the component of a luminaire that produces the  
13 light;

14 (6) "Light trespass" means light emitted by a luminaire that shines  
15 beyond the boundaries of the property on which the luminaire is  
16 located;

17 (7) "Lumen" means a unit of measurement of luminous flux;

18 (8) "Luminaire" means the complete lighting system, including the  
19 lamp and the fixture;

20 (9) "Permanent outdoor luminaire" means any luminaire or system  
21 of luminaires that is outdoors and intended to be used for seven days  
22 or longer; and

23 (10) "State funds" means any bond revenues or any money  
24 appropriated or allocated by the General Assembly.

25 (b) Except as provided in subsection (c) of this section, no state  
26 funds shall be used to install or replace a permanent outdoor luminaire  
27 for lighting on the grounds of any state building or facility unless (1)  
28 the luminaire is designed to maximize energy conservation and to  
29 minimize light pollution, glare and light trespass, (2) the luminaire's  
30 illuminance is equal to the minimum illuminance adequate for the  
31 intended purpose of the lighting, and (3) for a luminaire with a rated  
32 output of more than one thousand eight hundred lumens, such  
33 luminaire is a full cut-off luminaire.

34 (c) The provisions of subdivision (3) of subsection (b) of this section  
35 shall not apply to luminaires on the grounds of any correctional

36 institution or facility administered by the Commissioner of Correction.  
37 The Commissioner of Public Works, or the commissioner's designee,  
38 may waive the provisions of subdivision (3) of subsection (b) of this  
39 section with respect to luminaires on the grounds of any other state  
40 building or facility when, after a request for such a waiver has been  
41 made and reviewed, the commissioner or the commissioner's designee  
42 determines that such a waiver is necessary for the lighting application.  
43 Requests for such a waiver shall be made to the commissioner or the  
44 commissioner's designee in such form as the commissioner shall  
45 prescribe and shall include, without limitation, a description of the  
46 lighting plan, a description of the efforts that have been made to  
47 comply with the provisions of subdivision (3) of subsection (b) of this  
48 section and the reasons such a waiver is necessary. In reviewing a  
49 request for such a waiver, the commissioner or the commissioner's  
50 designee shall consider design safety, costs and other factors deemed  
51 appropriate by the commissioner or the commissioner's designee.

52 (d) The provisions of this section shall not apply to the installation  
53 or replacement of luminaires for which the Secretary of the Office of  
54 Policy and Management (1) conducts a life-cycle cost analysis of one or  
55 more luminaires which meet the requirements set forth in subsection  
56 (b) of this section and one or more luminaires which do not meet such  
57 requirements, and (2) certifies that a luminaire which meets such  
58 requirements is not cost effective and is not the most appropriate  
59 alternative based on the life-cycle cost analysis.

60 Sec. 3. (NEW) (*Effective July 1, 2002*) (a) There is established a  
61 Commission to Study the Extent, Causes and Consequences of Light  
62 Pollution in Connecticut.

63 (b) The commission shall consist of the following members:

64 (1) Four appointed by the speaker of the House of Representatives,  
65 two of whom shall be members of the House of Representatives and  
66 two of whom shall represent environmental organizations;

67 (2) Four appointed by the president pro tempore of the Senate, two

68 of whom shall be members of the Senate and two of whom shall  
69 represent the Connecticut Dark Sky Association;

70 (3) Nine appointed by the Governor, one each of whom shall  
71 represent the professional astronomy community of the state, the  
72 amateur astronomy community of the state, the Illuminating  
73 Engineering Society of North America, the National Electrical  
74 Manufacturers Association, state or municipal law enforcement,  
75 science educators at the secondary school level, and municipal  
76 governments, and two of whom shall represent the two electric utility  
77 distribution companies in the state;

78 (4) One appointed by the Commissioner of Environmental  
79 Protection, who shall be an employee of the Department of  
80 Environmental Protection;

81 (5) One appointed by the chairperson of the Public Utilities Control  
82 Authority, who shall be an employee of the authority;

83 (6) One appointed by the Commissioner of Transportation, who  
84 shall be an employee of the Department of Transportation;

85 (7) One appointed by the Commissioner of Public Works, who shall  
86 be an employee of the Department of Public Works;

87 (8) One appointed by the Connecticut Energy Advisory Board, who  
88 shall represent the board; and

89 (9) One appointed by the Connecticut Energy Conservation Board,  
90 who shall represent the board.

91 (d) All initial appointments to the commission shall be made no  
92 later than thirty days after the effective date of this section. Any  
93 vacancy shall be filled by the appointing authority. The members of  
94 the commission shall serve without compensation. The commission  
95 shall elect a chairperson from its membership, who shall serve for a  
96 term to be designated by the commission.

97 (e) The administrative staff of the joint standing committee of the  
98 General Assembly having cognizance of matters relating to  
99 government administration shall serve as administrative staff of the  
100 commission.

101 (f) The commission shall:

102 (1) Study and document the sources of light pollution in  
103 Connecticut;

104 (2) Study and document the consequences of light pollution in  
105 Connecticut, including its impact on driving safety, nocturnal fauna,  
106 astronomical research and observation, the natural beauty of the night  
107 sky, and such other consequences the commission determines are  
108 appropriate for its attention;

109 (3) Survey and document the technology and standards currently  
110 available to minimize light pollution;

111 (4) Estimate the potential costs and savings, including the potential  
112 impact on the state budget and the budgets of municipalities,  
113 associated with the adoption of lighting practices that minimize light  
114 pollution while meeting important illumination and safety lighting  
115 requirements;

116 (5) Prepare recommendations for public and private action to  
117 minimize light pollution in Connecticut, including, but not limited to,  
118 appropriate legislation and regulation for consideration by the General  
119 Assembly and municipalities; and

120 (6) Document annually the state's progress in reducing light  
121 pollution, restoring the night sky, and reducing electricity use and  
122 public expense.

123 (g) Not later than January 1, 2003, and annually thereafter until  
124 January 1, 2007, the commission shall submit a report on its findings  
125 and recommendations to the General Assembly, in accordance with  
126 the provisions of section 11-4a of the general statutes. The commission

127 shall terminate on January 1, 2007."